Drug Testing Analysis and Toxicology Reports Explained

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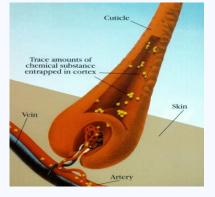
CLE for TN Court Improvement Program

OUTLINE

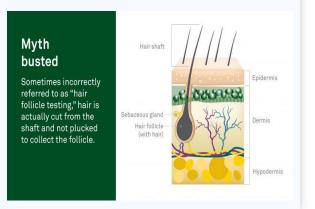
- 1. Hair "follicle" drug testing
- 2. Urine drug testing
- 3. Nail "bed" drug testing
- 4. Natural vs. Synthetic Opiates
- 5. DCS testing
- 6. Sample hair test results and CCF
- 7. Flawed or contaminated hair samples

HAIR TESTS EXPLAINED

IS CALLING A HAIR TEST A HAIR "FOLLICLE" WRONG? THE FOLLICLE IS BELOW THE SCALP MEANING A COLLECTOR WOULD HAVE TO PULL THE HAIR STRAND IN ORDER TO GET THE FOLLICLE.



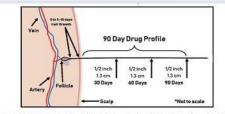
COLLECTORS ARE TRAINED TO CUT THE HAIR AS CLOSE TO THE SCALP AS THEY CAN WITHOUT CAUSING ANY PAIN TO THE DONOR.



HAIR TEST TIMEFRAME

The picture to your right is from Omega Laboratories website. It explains how long hair must be in order to go back a certain amount of time. This picture also explains their different methods and turnaround times.

We have an account with multiple different hair labs however, Omega and ExperTox are our main ones. We tend to use Omega more due to having a faster turnaround time.



The typical hair test uses a 1.5 inch (1.3 cm) segment of head hair collected from close to the scalp. Since the average growth rate of human head hair is approximately ½ inch (1.3 cm) per month. a typical hair test covers an approximately 90 day time frame.

Comparison of Drug Testing Methods

	Urine Testing	Oral Fluid Testing	Hair Testing
Window of Detection	12 hours - 3 Days (THC up to 30 days)	Minutes - 2 Days	1 week - 3 Months
Laboratory Turnaround	1-2 Days	1-3 Days	1-3 Days
Adulteration	Commonly available	Difficult to adulterate	Difficult to adulterate
Collection Difficulty	Invasive, special facilities required	Non-invasive	Non-invasive
Best Use	Post Accident, For Cause	Post Accident, For Cause, Random	Pre-Employment, Random

Urine Drug Testing

PROTOCOLS & PROCEDURES

Starting under DOT Rule 49 CFR Part 40 Section 40.61, there are certain steps that collectors must take in order to do a urine collection correctly. The link below gives in depth information and examples of everything regarding a urine collection.

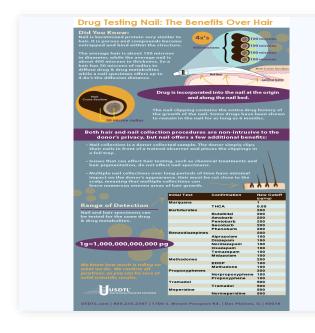
https://www.transportation.gov/odapc/part40/40-63

URINE TEST TIMEFRAME

There are two types of urine test- instant and lab based.

Instant tests use a dipstick to give a reading within 4 minutes. The result is either negative or non-negative, which then must be sent to the lab for confirmation.

Lab based tests are what most companies and courts ask for because of how many more drugs can be added on. Most negative tests can come back in 24-48 hours, however, those who take prescriptions or show up positive will take a few days longer.



Nail "Bed" drug testing

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OPIATES

Difference Between an Opioid and an Opiate

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Opioids		Opiates		
Vicodin Percocet Oxycodone Fentanyl etc.		Opium Morphine Heroin Codeine etc.		
₩ANR	https://anrclinic.com/			

NATURAL VS. SYNTHETIC

Naturally occurring opiates that are covered on all our hair test are Codeine, Morphine, and Heroin.

Non natural opiates that we can test for include Oxycodone, Oxymorphone, Hydrocodone, Hydromorphone, and Fentanyl.

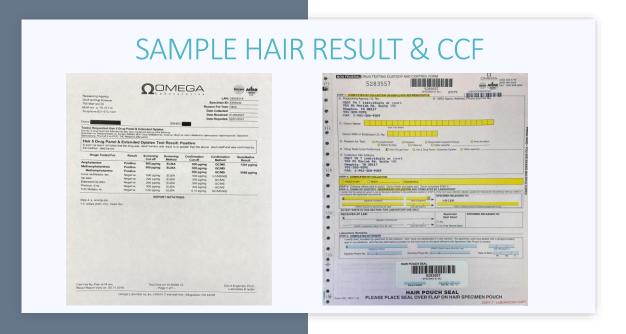
The other drugs listed to the left can be tested, but do not come on any of our standard panels.

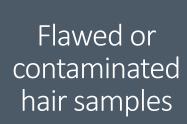
DCS hair testing

Picogram per milliliter

Picogram (pg) and milligram (mg) are units of weight used in metric system.

1 picogram (pg) = 0.000000001 milligram (mg)





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